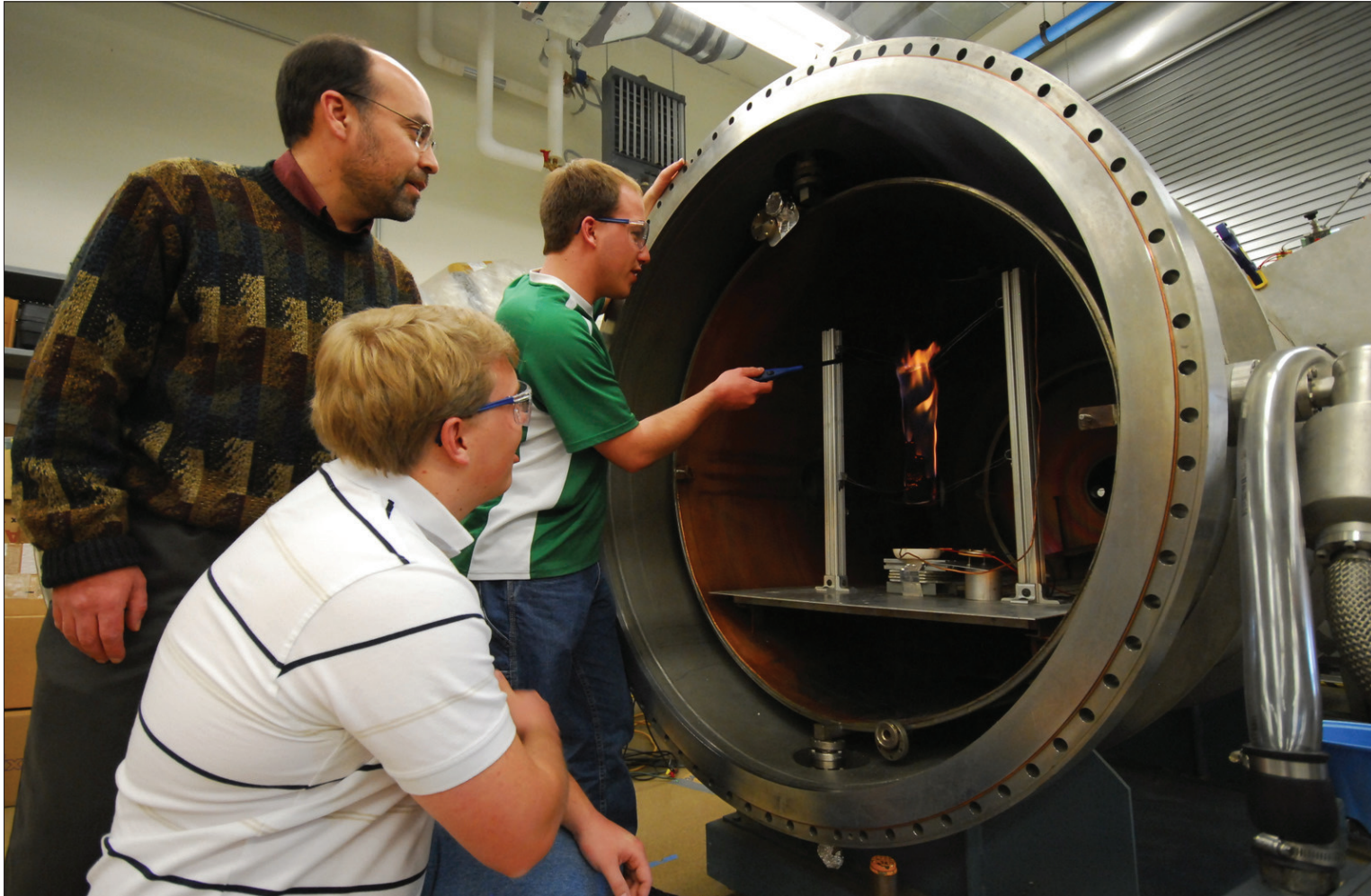


Center for Space Resources puts Mines in space



ALAN DOWNEY / OREDIGGER

Dr. Angel Abbud-Madrid, Joe Stevanak, and Ben Webster work on a fire-suppression system for spacecraft.

Alan Downey Staff Writer

The CSM Center for Space Resources is located in the General Research Labs building, but the center's director, Dr. Angel Abbud-Madrid says its best to "think about the Center for Space Resources as CSM in space." The CSR is a multidisciplinary research center focused on tackling the challenges facing space exploration today and in the future.

The School of Mines has had a history with the space program beginning with studying some of the Apollo moon rocks, and for a short time there was a Center of Space Mining. However there was no concerted effort to establish a space research center until 1996 with the creation of the Center for Commercial Applications of Combustion in Space, as a part of the NASA Commercial Space Centers program, to study high temperature reactions and combustion in microgravity, and that center lasted for about 10 years.

The true Center for Space Resources was created in 2006 in response to what Dr. Abbud-Madrid described as "a major shift in NASA policy". In January of 2004, President Bush gave NASA the goal to replace the aging space shuttle, and return to the Moon, and send the first manned missions to Mars. These goals involve everything from the development of new technologies, to finding, mining, and utilizing plan-

etary resources, and as Dr. Abbud-Madrid said, "That's exactly what Mines is good at." Thus the CCACS was reworked into the contemporary Center for Space Resources to be a multi-disciplinary center for the development of new technologies to meet the challenges faced by the new era of space exploration.

The recent budget announcements made by President Obama appeared to spell out an end for an American space program with the cancellation of the project to develop a shuttle replacement, and Lunar and Martian expeditions. However, Dr. Abbud-Madrid feels strongly otherwise; "It's actually a great opportunity for us and for universities and for researchers, because now the money, instead of being channeled to build the rocket, will be used to develop technology." This opens the door to all corporations to attempt to develop their own space transportation, and could lead to better and more efficient systems than would have been produced by NASA directly. So, despite the fears that U.S. spaceflight is dying

"When [the budget report] came out and I read it, I said, 'this is great.'"

out, Dr. Abbud-Madrid is hopeful; "When [the budget report] came out and I read it, I said, 'this is great.'" Since the Center for Space Resources is such a multidisciplinary research group, there are a lot of different projects all being worked on at a time. From studying how to characterize, and excavate soils,

developing sensors, studying new materials and how to manufacture them in space, managing the dust that plagues planetary research, and developing a new fire suppression system. Recently, there have been some very significant developments in a couple of the projects. Dr. Abbud-Madrid noted that "We

"We're literally throwing a waterfall into it every test... I spend several hours in there with a vacuum and a heat gun just sitting inside drying it."

developed the first prototype of a lunar excavator...that will work on the moon". The group of seniors working on that project will head to the Kennedy Space Center at the end of the semester to compete with a new version of the excavator.

Another great development has been in Dr. Abbud-Madrid's research into spacecraft fire suppression. "We were actually given the go-ahead by NASA to develop the fire extinguisher that's going to be on the new spacecraft from now on." And it will most likely be adopted in the future by other corporations for their spacecraft as well. The system being developed at the CSR is a portable unit that disperses water in a very fine mist. "Water is great, because water mist, as opposed to sprinklers, is very fine droplets - like a cloud," explained Dr. Abbud-Madrid. "So that thing gets to the fire, absorbs all the heat, vaporizes very quickly, and doesn't leave all the destruction that you have after using [sprinklers]. And with spacecraft's

dehumidifying systems, the water that is used to suppress the fire is actually recycled, and the extinguisher can be refilled and reused as well.

Down in the lab where the fire suppression system was being tested, two of the students working on the project spoke on the difficulties of testing a system that is to be used in a space environment. Ben Webster, a Junior, majoring in Engineering Physics, spoke about the laborious nature of setting up the experiments. "Your normal vacuum

system, you clean out, and you clean with alcohol, and you bake it down to get all the fluids out," he explained. "But with this guy, we're literally throwing a waterfall into it every test... I spend several hours in there with a vacuum and a heat gun just sitting inside drying it." Not only is setting up for a test difficult, but being able to send information from inside the vacuum chamber to a computer was difficult as well. Joe Stevanak, a Senior Engineering Physics major, stated, "When you try to get it down to vacuum pressures, just a few molecules can make a difference" and so, "any of the feed-throughs [from the vacuum chamber to outside] have to be electrically and specially isolated so that you don't have any leakage of gas."

The Center for Space Resources is on the forefront of space research and is producing the technology that will continue to keep the United States, and the rest of the world, headed out of Earth's atmosphere and into the cosmos.

Groundwater remediation with microbes

Kevin Lock
Staff Writer

Dr. Tim Scheibe visited the Colorado School of Mines last week as part of the National Ground Water Research and Educational Foundation-sponsored Henry Darcy Distinguished Lecture Series in Ground Water Science. The lecture series was established in 1986 to honor Henry Darcy who, through his research, established the basis for hydrology and groundwater engineering. Each year, a distinguished groundwater scientist or engineer is chosen by an expert panel to travel the country and present their work.

Tim Scheibe got his start in groundwater with former Darcy Lecturer and current CSM faculty member Dr. Eileen Poeter, who taught him in an undergraduate groundwater course at Washington State University. He then went on to earn a master's degree from University of Washington and a Ph.D. from Stanford. He now works for Pacific Northwest National Laboratory.

As part of the lecture circuit, Scheibe delivered a presentation entitled, "Beyond the Black Box: Integrating Advanced Characterization of Microbial Processes with Subsurface Reactive Transport Models." This lecture dealt primarily with the use of microbes, which already exist in the earth's subsurface, for bio-remediation of contaminants to groundwater sources.

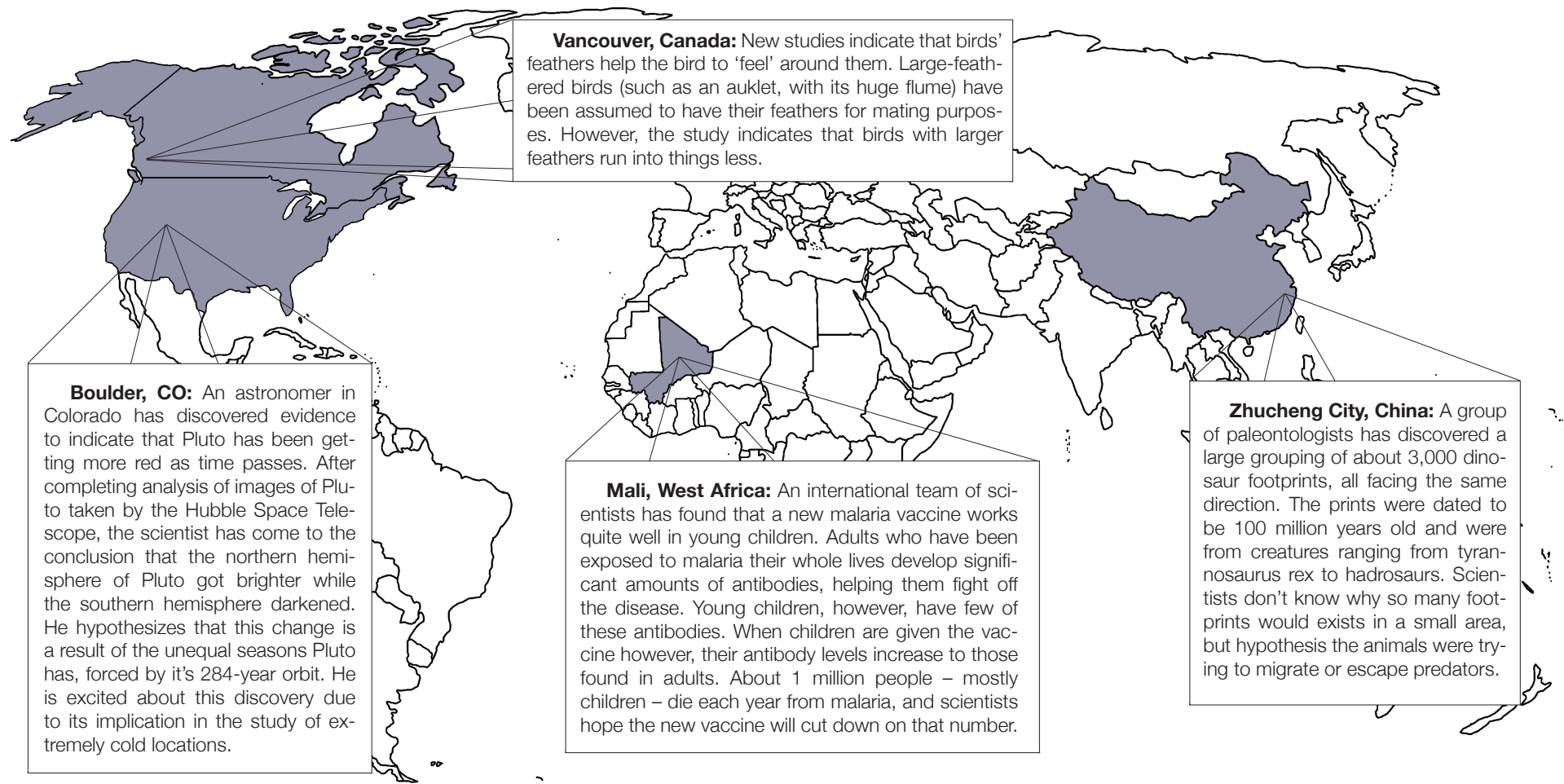
To start the lecture off, he painted a picture of the diversity that can be encountered on our planet and how much local environment affects human behavior. "If you want to know me, you need to know something about the environment I live in because my behavior is influenced by my local conditions. I would say the same is true for micro-organisms... Their behavior is strongly influenced by their local conditions."

The idea of subsurface microbiology is fairly new. In 1985, the US Department of Energy began funding the study of micro-organisms in the deep subsurface. Before this time, it was thought that life could not exist there due to the complete lack of sunlight (or anything originating from sunlight). However, diverse organisms have been found up to 2.8 kilometers below the subsurface. One of these organisms has been found to survive at temperatures above 121 degrees centigrade, strain 121. These microbes eat and live off of rocks. Uranium decay feeds these organisms by changing inorganic carbon, formed from decay, into organic carbon. This idea has led scientists to believe that similar organisms may exist on Mars. Unfortunately, the feasibility of setting up a drilling rig on Mars is currently outside of reality.

SEE GROUNDWATER
ON PAGE 3

Scientific discoveries this week

Jake Rezac, Content Manager



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Headlines from around the world

Emily Trudell, Staff Writer

Men's Health Magazine ranked two Colorado cities in their list of the top 20 **"drunkest" cities** in the United States. Colorado Springs was ranked sixteenth, and Denver was ranked seventeenth, moving back from the number one spot a couple years ago. The ranking was based on the number of DUI arrests, the severity of offenses, and on the number of deaths caused by alcohol.

Royal Dutch **Shell** announced that it would cut 1,000 jobs after fourth quarter revenues dropped 75 percent for the energy company. Shell cut 5,000 jobs in 2009, and plans to cut production by 560,000 barrels of oil per day.

Republican **Scott Brown** was sworn in by Vice President Joe Biden as a new Senator from Massachusetts. Brown is replacing the spot of Sen. Edward Kennedy, who died in August after serving 46 years.

The body of a 22 year old student of **Colorado State University** was found on a set of railroad tracks just outside of Keenesburg Thursday morning. The student was a member of the Alpha Tau Omega fraternity at CSU, and authorities have found no evidence that his death was a suicide.

NASA released photos of the dwarf planet **Pluto**, showing that it undergoes dramatic atmospheric changes. Experts from the space agency argue that these photos show that Pluto is not just a ball of rock and ice since it has dramatic

seasons and weather.

A federal judge ordered Charles McArthur Emmanuel, the son of a **former Liberian president**, to pay \$22.4 million in damages to five citizens who were brutally tortured during the country's civil war. Emmanuel was also sentenced to 97 years in prison under a United States anti-torture law.

The American military shipped 25 **bomb-sniffing dogs** to Iraq after several mechanical bomb detectors were found to be ineffective. Another 120 dogs are scheduled to be brought to Iraq within the next twelve months to crack down on bombings caused by security lapses.

The Global Wind Energy Council reported that China doubled the amount of **wind power** generated from wind farms in

the previous year. China aims to increase its wind power generation by six times, by 2020, though experts speculate that the nation will reach that goal far sooner. Despite the increase, wind power only makes up 1 percent of China's energy needs.

Akio Toyoda, the CEO and President of **Toyota** apologized for the company's recall of over 4.5 million vehicles over the globe for sticky gas pedals.

National Center for Immunization and Respiratory Diseases warned that the **H1N1 flu** is still a predominant virus, and urged Americans to get the vaccine. Only an estimated 23 percent of the public have received the vaccination, and between 7,880 and 16,460 deaths related to H1N1 occurred since the virus first began to circulate.



Local News

Mines women's basketball team defeated UC-Colorado Springs in Rocky Mountain Athletic Conference by scoring the highest number of points in the season (90 points) on Saturday, February 6th.

The Colorado School of Mines swimming and diving teams (both women's and men's) earned Colorado Swimming Coaches Association of America Division II Team Scholar All-America honors. With the women's cumulative GPA of 3.43 and the men's of 3.10 for Fall 2009, the teams stood fourth and sixth consecutively in Division II schools.

The CSM Sweet Adelines and Barbershop are selling Singing Valentines this week; they can be delivered to any location on campus on Friday, February 12th.

Career Day is on Tuesday, February 9th; it will be held during the day at the Mines Student Recreation Center.

The Coal Creek Canyon Environmental Group had a community meeting on February 4th to oppose Denver Water's Project and to enlarge Gross Reservoir by sending letters of protest to the U. S. Army Corps of Engineers and to Denver Water.

The tickets for Winter Carnival will be on sale this week through Thursday from 10 am to 2 pm in the Student Center Lobby; the Winter Carnival is at Eldora.

Groundwater

CONTINUED FROM PAGE 1

Scheibe's research of these organisms has focused primarily on exploiting, and essentially farming, them to eliminate substances in the subsurface which are seen as contaminants. Many of these microbes reduce metals, which can lead to dissolution through precipitation and therefore a cleaner water source. The microbes can be used to eliminate Uranium pollution and other toxic elements.

By gaining understanding of the microbes' metabolisms, Scheibe and his team have been able to feed and encourage the growth of specific microbes to target specific pollution sources. Through genome studies, Scheibe has been

able to model and predict trends of biomass growth and therefore the effectiveness of bio-remediation. To trigger biomass growth, organic carbons are injected into the subsurface. Ethanol, acetate, lactate, and even molasses and vegetable oil have been used. When the biomass takes off, the microbes are triggered by their preferred food source, and begin to attack the volatile substances in the groundwater system, greatly reducing the target pollution source. In one of his field studies, Scheibe was targeting Uranium contamination, "If we can stimulate the [microbes] that reduce Uranium, instead of the ones that don't, we may be able to prolong Uranium reduction [at the site]."



Mines goes to Denver

Alec Westerman
Staff Writer

Legislature Day (L-Day) is an annual event in which students have an opportunity to showcase what is going on at Mines to the Colorado State Legislature. In the words of Damian Illing, an organizer of the event, the purpose of L-Day is "to expose [the] Colorado State Legislature to the exciting research and student activities on campus." The hope is that, through L-Day, the misunderstandings between Mines and the capital can be resolved and mitigated.

At the start of the event Illing explained, "I hope to have a bunch of legislators come, at least 20... and that they enjoy themselves." Earlier that morning, Illing and four other members of ASCSM went to the capital and handed out pamphlets to the legislators while explaining to them what they could expect at L-Day. Many of them had attended in years past and many had already made note of the event on their calendars.

The outer perimeter of the room was lined with easels, tables, and

poster boards. In the center of the room there were cocktail tables, each with a single candle in the middle. Blue table clothes were the theme. Three Tomatoes catered a delicious display of hors d'œuvres and stood by to pour beverages and keep the scene tidy.

Several organizations were in attendance from Mines, including ASCSM, Tau Beta Pi, Blue Key, AEG, SPS, and the Oredigger. There were also some professors and notables from the administration, such as President Scoggins and Provost Castillo. Unfortunately, only four legislators were able to attend.

Discussions on medical marijuana and issues regarding steel workers captured the legislators' attention. Students took the opportunity to converse amongst themselves and enjoy the hors d'œuvres. There was also some healthy interaction between the students and the administration. Some students expressed satisfaction at getting to meet those that run the school. The faculty seemed to fare similarly in that they too enjoyed the opportunity to interact with those present and

had a good time regardless of the lack of legislators.

The four legislators seemed to enjoy interacting with the students and relating to them on a variety of issues. They circulated enough so that almost everyone got a chance to talk with them. They also took the opportunity to catch up with the administration and faculty pertinent issues.

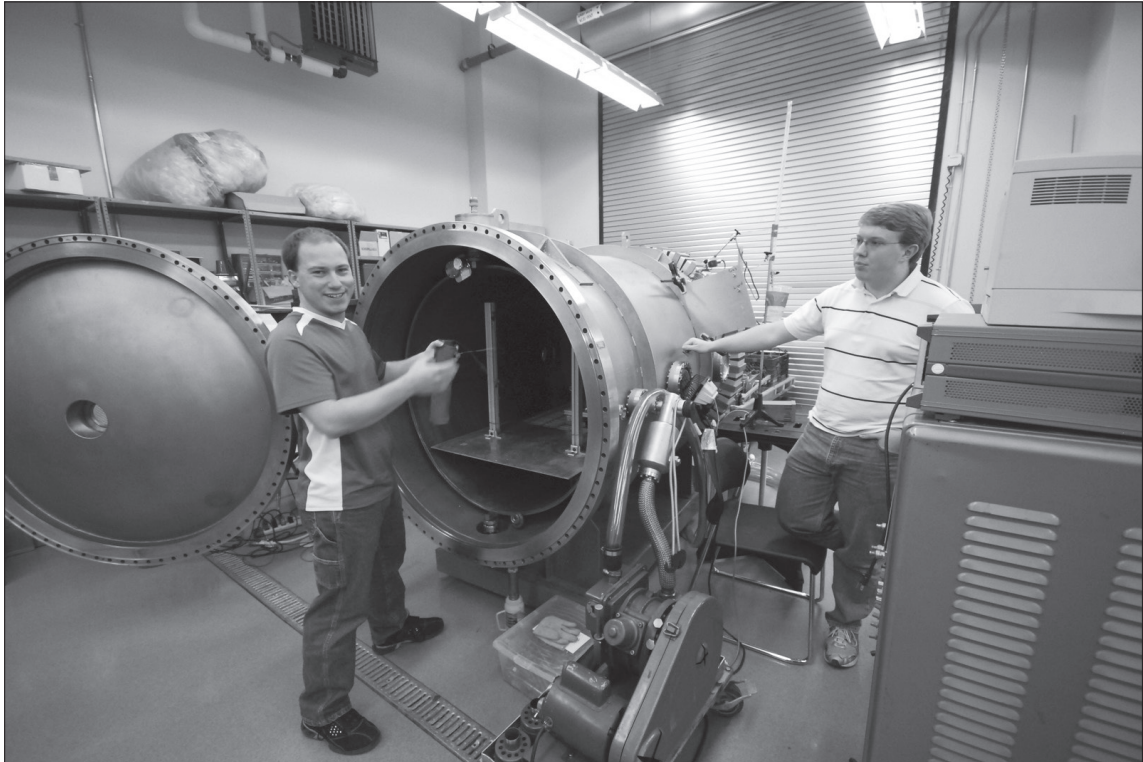
While hopes for attendance may have been unfulfilled, the hope that legislators gain exposure to what is going on at Mines was most certainly fulfilled. At the end of the evening, nobody seemed to express serious regret at having attended.

Looking years ahead, Illing expressed hope and said, "I'd like to see this become one of the huge events of the legislature's calendar." He described how important L-Day is and that its future success would do great things for Mines. L-Day is an annual event, so watch for it next spring semester. It is a good chance to meet those setting the future of the school and raise awareness for whatever organization of which you may be a part.

Center for Space Resources, see page 1

To the left, Center for Space Resources director Dr. Abbud-Madrid and Engineering Physics junior Ben Webster check pressure gauges on the vacuum chamber.

Below, Engineering Physics senior Joe Stevanak and junior Ben Webster clean and prepare the vacuum chamber.



ALL PHOTOS ALAN DOWNEY / OREDIGGER

COLORADO SCHOOL OF MINES

CAREER DAY

TUESDAY, FEBRUARY 9TH

9:30 AM - 4:00 PM

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Collection in Student Activities or contact Kurtis Griess (kgriess@mines.edu)

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Art of science



Image: Bicycle wheel ERIK LORD / OREDIGGER

"I don't mind occasionally having to reinvent a wheel; I don't even mind using someone's reinvented wheel occasionally. But it helps a lot if it is symmetric, contains no fewer than ten sides, and has the axle centered. I do tire of trapezoidal wheels with offset axles." ~ Joseph Newcomer

Old Capitol Grill serves great food and history

Katie Huckefeldt
Staff Writer

Sitting on the corner of 12th and Washington, the Old Capitol Grill is a landmark feature on Golden's downtown main street. Established in 1866, this historical building is not only a part of Golden's history, but of Colorado's as well.

The building itself is named the Loveland building after its constructor, W.A.H Loveland. The Loveland building was, in fact, the original capitol building of the Colorado territory and held Colorado's first legislative sessions in 1866. A battle raged in Congress over the issue of the location of the state capitol; should it be Golden or Denver? Golden lost by a mere vote; a vote many believe was bought. Although the Loveland building lost out on the honor of becoming the capitol building, it still continued to play an important part in Golden's history.

Mines itself held sessions with Mr. Loveland as one of its first trustees. Loveland become involved in the Colorado Central Railways and used his building as a one of his central offices. Later, the building became a dry goods store and from 1941-1971 was one of the largest grocery stores in Jefferson County. In 1971, the Loveland building converted to become the Mercantile Restaurant and has remained in the restaurant business since then. Although the building has had been worked on many times in its 144 years, the most recent update gave the building its 1920's façade and the charm it has today. In 1997, the building finally become home to what we know it as, the Old Capitol Grill - a name befitting its historic past.

Apart from the building's history, there is another major part to the Old Capitol Grill - the food! With decent prices, the Grill offers great food that even a college kid can afford every now and then; the average meal is around \$10. The menu offers a range of items, from Bison Burgers and "Capitol Punishment Chili" to fish tacos and pot roast. A giant BBQ pulled-pork sandwich and heaping pile of fries is a mere \$9.

Aside from a delicious meal, the atmosphere was cozy and in-

ving. Photos detailing the history of the building surround the tables in the back. The front bar area offers sports-fans a place to watch the games.

Overall, the Old Capitol Grill is a worthwhile visit for two reasons: its long-standing history in our quaint town and some great food. A couple of tips for first-timers. The Grill has some great lunch specials like BBQ ribs, rotisserie chicken, and soup and sandwich combos, and you can avoid the night-time crowds!



KATIE HUCKEFELDT / OREDIGGER

Geek of the Week

...Katie Dahl, Sophomore; Civil Engineering

Daniel Haughey
Staff Writer

Do you consider yourself a geek?
Definitely! I love reading and learning. I like problem solving. I like putting my intelligence to use.

How did you come to be at Mines?
Well, I've always wanted to be an Architectural Engineer, but I really did *not* want to go to Boulder, so I had to look elsewhere. My sister graduated from Mines in 2007, and she is probably the main reason I am here. She encouraged me to get my Civil Engineering degree and then go to grad school for architecture. So, here I am, and I don't regret it!

What is your favorite geeky pick up line?
"You must be Windows '95, because you are making me unstable."

What is the geekiest thing you have seen or done?
Recently I have become addicted to Halo. I was once into WOW and Guitar Hero, but I've weaned myself off those.

Star Wars or Star Trek? Why?
I guess Star Wars. My boyfriend's roommates watch Star Trek all the time while I am there, but I like the story of Star Wars better.

What are your hobbies?
Reading and rock climb-

ies too though. I really like *Marx Brothers* movies also, they are hilarious.

What is your favorite book?
Harry Potter! Specifically, *Harry Potter and the Deathly Hallows*.

What clubs or activities are you involved in?
Just ASCE, I don't like to pay to be a part of a group. I'm miserable at sports, so that is out. I don't really fit with many groups in this school, so I just kind of do my own thing.

Who is your role model and why?
I would have to say my sister. She worked her ass off to make it through this school before me. She has a great career and is happy and successful and does all that she can to help me get through too.

What is your favorite OS? Why?
Windows 7. I am quite technologically challenged, but I can use Windows 7 without a problem, at least with the help of my boyfriend's roommates.

What is your favorite formula and why?
I guess the quadratic formula because I've used it so much. Maybe $F=ma$, but that reminds me too much of Physics 100.

If you were stuck on a deserted island and you could only bring 3 items, what would they be?
If my computer would never die, I would bring it with as many books on it that will fit, my pillow, and my stuffed lamb. I feel no need for much else.

If you were to come up with a class for CSM what would it be?
An architectural design course.

If you could be anyone else, who would you be?
I don't want to be anybody else. I like myself, and I like my friends, and I like my tastes. I don't envy anybody.

What is one thing you love at Mines? One thing you would like to see changed?
I love the low female population because most girls get on my nerves, and I would much rather hang out with my geeky guy friends. I would like for Mines to reinstate some of its old traditions like the original M climb, before Mines students turned into pansies.



COURTESY KATIE DAHL

Mission trip Haiti: business as usual, almost

Andrew Ferguson
Guest Columnist

Everyone was shocked; I hadn't even once considered that the epicenter could be Port-au-Prince.

My first reaction was untempered, "Let's go! People need our help!" However, Bruce Robinson, our host, kindly and patiently explained our position: a group of white people, with no experience in disaster recovery, who can't speak French or Creole, and don't have place to stay, food to eat, or water to drink. Of course, Bruce was right; we would have been more of a burden than anything. I guess that's the kind of insight one gets after working in Haiti for twenty-five years.

Life continued, more or less, as normal. Bruce was working overtime trying to coordinate relief efforts with his organization, Cross-World. The only real impact to us was that our work days were a bit shorter since Bruce had so much going on. By Thursday, we were in full swing at Foison, laying electrical conduit and wiring, digging holes for the foundation, and having fun.

Friday threw another curveball. We'd been gone for a week now, and up until this point, things were still looking hopeful for leaving on Monday (our original return date), maybe Tuesday at the latest. Then the word came down, American Airlines was continuing to cancel flights and we were rebooked for the following Saturday.

This was a hit to the gut for everyone, I think. Everyone had jobs back home and most of us were using vacation time to be down here. What was the plan now? How much more vacation time would we have to use up? What if we ran out? Some people were in more precarious positions than others, with a limited amount of vacation time and no reprieve if they ran out. Saturday was our scheduled off day and we went to the beach on the northern coast of Port-de-Paix. It was good for everyone to get a

chance to relax, tensions were high as the uncertainty of our position became more and more apparent. It had been several days since we felt any aftershocks, yet news of the destruction in Port-au-Prince was still only trickling in.

One of the biggest differences in being in this particular mission field is the change in communication. Information access becomes a resource almost as precious as food or water. Satellite Internet is paid for by the megabyte. There is no newspaper or evening news, at least for us. And calls back to the United States cost \$2.39/minute...if you can get through.

All of our information came from what Bruce and Deb told us. And the only things they knew were what they gleaned from sporadic checks of news sites online and emails from coworkers in Port-au-Prince who's homes weren't completely destroyed. Susie Day, a missionary based in Port-au-Prince, wrote, "I went briefly into Dad's study...then it hit...it was unbelievable...it was horrible...dad's office caved in on me...I had no time to react, no warning...a loud noise, then the violent shaking and screaming...I fell down on the floor in front of dad's sofa, covered in debris. I got hit real hard to the right side of my head ... I started talking to God...praying...crying...my legs were buried and I had injured my right arm. I guess I got up on dad's desk...the iron window at his desk caved in with the wall and I climbed on top and pulled myself out. It was horrible outside - people screaming...rushing up the street...all over."

The end to Saturday really couldn't have been more perfect; well, plans for how we were going to leave Haiti would have been nice, but one thing at a time. Deb

cooked us a Thanksgiving dinner, complete with turkey, mashed potatoes, gravy, stuffing, green beans, and pumpkin pie.

By Sunday, plans for our evacuation were in place. I hate using that word, we weren't in any sort of immediate danger and we had plenty of supplies; let's call it an unplanned deviation in plans resulting in less than ideal travel conditions. The plan was to drive 10 hours to Cap-Haitien, then catch a flight on Missionary Flights International to Florida. Once in Florida, we would resume our flight on American Airlines from Miami back to Seattle.

Going to church was almost a surreal event, everyone lost someone or knew somebody who lost someone in the earthquake. Despite the tragedy, people were thankful for what they did have, and they showed it; the outpouring of love and faith transcended the Creole language.

We spent Monday doing what we learned to do best: hurry up and wait. We needed to pack light for our journey home, so we only took the essentials. Everything else we left behind to be sent back later. One last round of soccer with the kids and a final check of our bags. Tuesday would be go day.

In many ways, I feel Tuesday morning came to fast.

A journey of a thousand miles begins with the first step; ours began by piling 17 people in to the back of one 1980's Toyota Land Cruiser configured as a pickup with high metal sides to carry cargo, plus two spare tires. And our luggage. We left just before 7am, and set off for Cap-Haitian. The northern coast of Haiti was picturesque. It was easy to forget that we were still in a country so ravaged by poverty, war, corruption, and now a natural disaster.

The roads were as before, however as we neared the mountain pass they became progressively worse. We crossed several giant puddles, which would be appropriately likened to very small lakes. We made it up most of the mountain range before we ran into our first problem, a flat tire.

With NASCAR pitcrew-esque speed, we deftly changed the tire and were back on our way, although we ended up walking the rest of the way to the summit to reduce the risk of getting another flat.

Once we got out of the mountains, the roads became better, we even experienced some paved sections again (Praise God from whom all pavement flows...!) The traffic in Cap-Haitien was very congested, however we were able to make our way to the missionary compound we were staying at, which was just ten minutes from the airport. Frankly, we were just happy to have a good night's rest.

The next day, we didn't know when Missionary Flights was going to arrive at the airport, so we played it safe and got there with plenty of time to spare (hurry up and wait was one of big themes for our trip and a great time to practice our virtue of patience).

Just after four in the afternoon, we left the Cap-Haitien International Terminal and walked out to our awaiting DC-3.

A relic of World War II, our DC-3 was manufactured in 1944. With a cruising speed of 150 MPH (almost 3.5 times slower than a conventional 737, which cruises at 511 MPH), it took us over six hours to fly to Fort Pierce, Florida. An unpressurized cabin meant that we had to fly low, about 8000 feet according to my GPS, offering a unique view of the various Caribbean islands.

We had a layover in Turks and Caicos to get fuel and were treated to pizza and snacks. There was a copy of the local newspaper sitting on the table. There was a picture

of the collapsed Haitian Presidential Palace; it had been over a week since the earthquake and this was the first time I had seen any pictures of the destruction.

When we landed in Fort Pierce, members of Deb's church, Boca Raton Community Church, picked us up and took us out to dinner! We weren't able to secure hotel rooms, so the church also gave us all a place to sleep for the night, along with the first hot shower we had in two weeks ((When I got in the shower, I turned the knob on the left and let it run for a few moments. The water was still cold, so I turned it off and tried the knob on the right. It was also cold! I quietly shouted, "No! No! No!" and frantically turned both knobs on. After a few seconds, the warm water started to flow. Whew.)

The church picked us up again in the morning and drove us to the Tri-Rail rail station where we caught a commuter train to Miami International Airport.

Amber, our group leader, got us all on a flight to Seattle via Chicago.

We had a long wait at the airport; some people read through Newsweek and Time. Others stole glances at CNN Headline News whenever they had a "Haiti Update". Finally it was time to board.

The rest of the trip was really just going through the motions. My mind was else where (perhaps in Haiti, perhaps somewhere else) while my body was being transported back to Seattle.

I kept replaying the events of the last two weeks in my head, over and over and over.

I tried sleeping, but I couldn't. Which is funny because I slept on all the planes on the way to Haiti. Now when I wanted to sleep the most, I couldn't.

We arrived at SeaTac, the exact same gate we departed from 14 days earlier. A nice sort of closure, I think. High-fives all around and one last shot of the group together before we raced to our loved ones.



The DC-3, operated by, Missionary Flights International, at the Cap-Haitien International Airport on January 20, 2010.

PHOTOS COURTESY ANDREW FERGUSON



Haitian's worship in a local church on January 17, 2010, the Sunday following the earthquake, in Passe Catabois, Haiti.



A glimpse of Cap-Haitien, Haiti on January 19, 2010.



Erica Hanson plays with local kids in Foison, Haiti on January 13, 2010.



Haitian's worship in a local church on January 17, 2010, the Sunday following the earthquake, in Passe Catabois, Haiti.



JoEllen Wang, Amber Evanson, Brenna Hersh (back row), and Stew Bowerman worship along with Haitian's in a local church on January 17, 2010, the Sunday following the earthquake, in Passe Catabois, Haiti.



Traffic in Cap-Haitien, Haiti on January 19, 2010.

ALL PHOTOS COURTESY ANDREW FERGUSON

Men's basketball defeats UCCS

Courtesy CSM Athletics

Colorado School of Mines defeated the University of Colorado - Colorado Springs by the score of 91-71 in Rocky Mountain Athletic Conference (RMAC) men's basketball action on Saturday night, February 6th, at Lockridge Arena.

Brett Green (6-of-11 FG, 10-of-12 FT), Dale Minschwaner (8-of-16 FG, 6-of-7 FT) and Drew Hoffman (7-of-10 FG) scored 25, 22 and 20 points, respectively, as the Orediggers (12-9 overall, 9-4 RMAC) won their sixth consecutive game. Hoffman, whose 20 points tied a season high, connected on all six of his three-point FG attempts while Minschwaner handed out a career-best five assists.

Gordon Galloway (career-high three blocked shots) and Levi Hamilton hauled in eight rebounds apiece and reigning RMAC / Baden East Division Player of the Week Sean Armstrong contributed 12 points, six assists and five boards. Mines, which led 42-27 at halftime, out-rebounded UCCS 43 to 30.

Cole Smith led UCCS (7-14 overall, 5-8 RMAC) in points (15) and rebounds (six).

Mines will host Regis University and Metro State on Friday and Saturday, February 12th and 13th, respectively. The Orediggers will then conclude the regular-season portion of their 2009-10 home schedule by hosting Colorado Christian University on Tuesday night, February 16th. Tipoff is scheduled for 8:00 p.m. at Lockridge Arena all three nights.

Below, Sean Armstrong (#5) easily reaches new heights to make an easy jump shot.



Above, Dale Minschwaner (#23) breaks away early during the game and performs a NBA worthy dunk.



Above, Levi Hamilton (#40) makes a layup while heavily guarded.



ALL PHOTOS STEVEN WOOLDRIDGE / OREDIGGER



Above, Dale Minschwaner (#23) wins the game opening tip-off against UCCS.



Above, Dale Minschwaner (#23) blocks a layup.

Women's basketball score 90

Courtesy CSM Athletics

The Colorado School of Mines women's basketball team scored a season-high 90 points on Saturday evening in route to a victory over UC-Colorado Springs in Rocky Mountain Athletic Conference (RMAC) play.

The Orediggers lead quickly climbed to double digits with an Angie Charchalis three-point basket at the 14:13 market and grew to as many as 23 points with 1:13 left in the first half courtesy of a layup from Katie Carty.

CSM led the rest of the way scoring 50 second-half points, shooting 50.0% from the field and 81.8% from the free-throw line. Mines finished the game shooting 46.2% from the field, 63.5% from the three-point line and 78.1% from the charity stripe. Mines also dished out 22 assists on 30 field goals. CSM had 12 of its 13 players score in the game.

On defense, Mines blocked eight shots, collected 12 steals and out-rebounded UCCS 59 to 33 pulling down 21 offensive rebounds. CSM held UCCS to just 24.6% shooting from the floor and 16.7% from the three-point line.

UC-Colorado Springs (5-16, 1-12 RMAC) was led by Lauren

Holm who finished with 15 points (8-for-11 FT), four rebounds and two assists. Kallie Jibblits (six rebounds) and Mallory Lowe each added six points. Lauren Wolfinger contributed five points and seven boards.

Emily Dalton led CSM with 16 points (5-for-10 FG, 5-for-6 FT) along with four rebounds, two assists and two steals. Kelsey Crist contributed 11 points (4-for-4 FT), two rebounds and two assists. Charchalis finished with 10 points (4-for-6 FG) including a pair of three pointers, three rebounds, two assists and two steals. Allie Grazulis posted her second game of the season in double figures with 10 points (6-for-7 FT) and seven rebounds. Carty added eight points and five blocked shots. Kait Soehner finished with nine points (4-for-5 FG), three rebounds, two assists and two steals. Brecca Gaffney pulled down a game-high 13 rebounds and Stephanie Fogle dished out five assists.

The Orediggers (13-7, 8-5 RMAC) will host Regis University on Friday, Feb. 12th. Mines' game on Saturday, Feb. 13th against Metro State is Senior Night and Parent's Night. Both games are at 6:00 pm at Lockridge Arena.



Below, During halftime, the Lil' Diggers performed a half-time show with the CSM Cheerleaders.



Below, Emily Dalton (#15) prevents a UCCS player from driving to the hoop.



Above, Katie Clements (#5) takes a shot just outside the key.

Below, Emily Dalton (#15) makes an easy layup despite heavy defense.



ALL PHOTOS STEVEN WOOLDRIDGE / OREDIGGER

Baseball season preview

Sam Schleisman
Staff Writer

The Mines baseball team is looking to rebound in 2010 after a disappointing campaign in 2009. The '09 team went 10-37 overall, going 7-27 in the RMAC. The Orediggers are led by third-year head coach Jerrod Oates and will lean on a core group of six seniors, headed by 2009 All-RMAC selections Andrew Ryan (second team) and Nick Wong (third team), as well as 2010 Pre-Season All-RMAC selection Cory Ast.

Ast, a 6'3", 190-lb left-hander from Westminster, Colorado started all 12 games in which he pitched last year. Ast led the team in strikeouts and innings pitched and is looking to improve on his performance from a year ago. He earned Honorable All-RMAC honors in 2008 and followed a good season with a solid playoff performance where he was named to the RMAC All-Tournament team. If this year's team is going to be successful it is going to lean on its starting pitching, especially Ast.

The Orediggers were picked to finish fourth in the Plains division and seventh overall in the

2010 RMAC Baseball Pre-Season Coaches Poll. The team is more optimistic.

"We're going to make the tournament for sure," stated Cris Rogers, continuing, "We're going to be in that postseason tournament." Rogers, a senior pitcher/third baseman, was second on the team in 2009 in wins, innings pitched, and strikeouts and is one of team leaders for the 2010 squad. That confidence that does not often show through in a team coming off the type of season that the Orediggers had last year, but it is exactly what senior catcher Anthony Siderius wants to hear from his teammates.

"The big thing is we need to forget about last year. It happened, it's behind us, there's nothing we can do about it now. Let's just move on, compete, stay in games, and do whatever needs to be done to win."

If the Orediggers are going to finish in the top 5 and make the playoffs, Marshall Schuler, a senior

pitcher/outfielder believes they are going to have to rely on a group of "good, strong starting pitchers" and a team with "strong bats to score some runs."

If one thing is sure, it is that this year's team will do its best to, as Siderius put it, "Compete, and stay in games. We're willing to do whatever it takes to avoid what happened last year... it's definitely a very competitive conference, and it is hard to say because anything can happen on any given day, but if anybody says they don't want to finish number one, they're lying to you... we're definitely going to playing for the end of the season."

When asked what he thinks it will take to win, Siderius was adamant in his response, "Desire and competitiveness."

The Orediggers play a double header vs. Augustana (S.D.) on Saturday, February 13 and against Wayne St. (Neb.) on Sunday, February 14. All four games will be played at Jim Darden Field.

Track team builds strength

Trevor Crane
Staff Writer

Following one of the best cross country seasons for the men's and women's teams, the track team looked to continue its excellence as it transitioned to outdoor season. "Our main focus for the season is on the outdoor [RMAC] conference and national championships" Coach Art Siemers explained, "but we still have the heart of our indoor season left."

The NCAA Division II track season is basically a year-long commitment for most athletes. It began in the fall for the distance runners in cross country and continued to indoor track during the colder months. Official competitions come to a close at the end of the spring session. For some athletes, this means ending in May at the National Championships. After a few weeks of resting tired joints, they will begin training once again for the upcoming fall season. They compete in one of the longest and most grueling regular seasons in sports and it comes to a head for the end of the spring season.

The indoor season of track provides the unique ability for athletes to train and compete year-round, honing their talent even during the off-season. Head Coach Siemers highlighted some of the distinctions between the indoor and outdoor seasons, "Our indoor track is 21 years old. It's very hard, which give us faster race times, but are tough on the joints. We must constantly care for our legs and I try to offer different ways to train."

Mines entered the spring behind a strong team overall, but there is no doubt the men's team will rely on the consistent performance of the distance team. "The men's distance medley relay team [were] the national champions last year and we look to see good things out of them this year," said Siemers. This year, dis-

tance will rely on Mack McLain, a strong performer a year ago, Ben Zywicki, and senior All-American Mark Husted. Coach Siemers is also impressed with the performance throughout the rest of the team. "We are the closest we have been to school records in the throws, high jump with David Stuart, and pole vault with Robbie McGourty, Tim Popp, and up-and-coming freshmen," described Siemers.

On the women's side of things, Kiera Benson joins All-American Sydney Laws as they look to lead the Orediggers into postseason success. Benson tied the Mines record for the women's 60m with a time of 7.58s earlier this year at the Air Force Academy in Colorado Springs, and is responsible some of the fastest time Mines has witnessed in the 200m indoor and 100m and 200m outdoor sprints. As for Laws, she placed tenth in the cross country national championships last fall, the best place by an Oredigger. Laws, only having outdoor eligibility, has a promising spring ahead. Her coach describes both her and Husted as "the embodiment of a Mines student athlete. They weren't standouts in high school, but have worked hard enough to become All-Americans."

However, Coach Siemers sees past all the success on the field, "Track is like a family. A lot of these athletes are best friends. Most of them are walk-ons, here because they want to be and it's a great way to get away from all the studying." Yet, despite the number of walk-ons, Mines is still a steady force on the track. They placed third in the RMAC conference championships last spring and look to close the gap between themselves and perennial powerhouses Adams State and Mesa State. Due to the leadership of this team, along with the promising younger talent, their goal looks more attainable.



Nick Wong (#7) dodges a tag while sprinting to third base on a ground hit.

Tyler Phan Thornton (#1) slides into second.

Nick Piehl (#35) beats the throw to first during Saturday's game against Midland Lutheran.





Minds at Mines

Idealizes a Date

Roby Brost
Staff Writer

It appears that love is in the air. If not love, then there are certainly enough candy hearts, infant cherubs with weapons, and stuffed animals the size of dorm rooms to approximate the effect. In case the commercialized fervor has yet to hit, or grocery shopping has not occurred since New Years, Valentine's Day is just around the corner. Next Sunday, February 14 to be exact. Yes, Valentine's Day is all well and good, but what about the pressure! Let us face it, romance is harder than... Advanced Electricity and Magnetism. Certainly. In addition, there are not that many girls at Mines, so getting it right is somewhat important. More pressure! But relax! The girls here on the beautiful Mines campus want to give a hand to the nice young gentlemen by taking the pressure for a "perfect date" off. The common consensus is that a Valentine's Day Date should be special, but hey – who is perfect? To this effect, some young ladies volunteered their ideas for a perfect Valentine's Day. Take from it what you will.

"My ideal Valentines Day date? Well, it should be special... Probably not a movie night. I think something that would be really fun and special would be to go stargazing with thermoses full of hot chocolate."

Kassi Hancock



"At this point, any date would be a good date... But I think that something like getting Ali Baba take-out (really good Mediterranean food) and going on a hike and eating when we got to top would be something really fun, just about my perfect Valentines Day date."

Kelley Vincent



"Ice skating! After which, I would love to go to a really nice restaurant, not any one in particular, just one that serves really good Italian food, because I love Italian. If it's nice out, we would take a walk. If not, then we could go for a drive. That would be the perfect Valentine's Day date."

Coralyn Kiess



"My 'ideal' date doesn't have to be in Colorado. I would love to have an ocean front dinner by candlelight. Then go for a long walk on the beach and lay on a blanket with rose petals and look at stars."

Stephanie Biagiotti



Letter to the Editor

To the Editor:

As the Student Body Vice President, I would like to take this opportunity to respond to last week's editorial regarding ASCSM (Student Government).

First, I would like to apologize for depriving the audience of a regular attendee at the last meeting; I was representing the Student Body at the Golden City Council meeting, and said person was also in attendance. ASCSM has made multiple attempts to spark interest in our 60 to 120 minute meetings, but apparently the chance to win a \$10 gift card to Chipotle and a variety of speakers and their presentation topics has simply failed to garner interest. Perhaps our current audience members, including *Oredigger* reporters, would like to help us out by recruiting their own friends to attend the meetings.

In terms of accountability, your Student Government has indeed made great strides in this direction. Consider, for instance, the return of the "What's Your Beef with Mines?" box and subsequent (and frequent) replies by Student Body President Jaime Thorpe in the *Oredigger*. Be-

cause not many students are particularly interested in taking 1-2 hours out of their busy (and often exam-filled) Thursday evenings to come to an oftentimes boring and rule-filled Student Government meeting, we have made a substantial effort to address students' concerns in this manner. As a member of the ASCSM Executive Board, please allow me to sincerely thank the *Oredigger* for publishing this feedback in lieu of wasting your student fees on a rival publication. We also appreciate the *Oredigger's* willingness to periodically publish articles from our Board of Trustees Representative, At-Large Representatives, and other members of Student Government; thank you for doing your part to keep the Student Body informed.

As the chair of the Parking & Public Safety Committee, I would also like to remind you of the first known student-initiated parking survey that we conducted in the fall. We received about 500 student responses and have shared the information with Parking Services. Parking concerns on campus prompted Parking Services to hire an outside parking consultants firm, and the

suggested solutions will be unveiled in the next few weeks. Once again, student representatives will send out an electronic survey and station themselves in the Student Center to collect feedback regarding the consultants' suggestions. Please note that all of this information has been repeatedly shared during ASCSM meetings by various student representatives.

If any student is ever curious about how your Student Government's allocated money is being spent, you can attend Student Body Treasurer Ann Lott's office hours between the hours of 8:00 am and 1:00 pm on Tuesdays in the Student Activities Office.

Should you have any further concerns regarding your Student Government's accountability, I would implore you to come before ASCSM during the time devoted to public forum comments at any of our meetings. The next Student Government meeting is this Thursday, February 11th, at 7:00 pm in the Student Center ballrooms.

Ashley Young
Student Body Vice President

The message NHV really delivers

Dan Miller
NHV Coordinator
Lecturer, LAIS

In "Why NHV contradicts principles" (*The Oredigger* 90.14), Kevin Barry charges that Nature and Human Values delivers such messages as "*money is morality*" and "The moral thing to do is proceed [with resource depletion], business as usual." The online version of his editorial has this title: "Why NHV contradicts everything Mines stands for." Nothing could be further from the truth.

Like other students in NHV, Mr. Barry learned about difficult situations in which, for example, engineers' judgments are overridden by superiors, sometimes for economic reasons. From that he somehow concludes that NHV preaches that economics *should* trump ethics. Obviously, pointing out a reality is not the same as endorsing that reality. If I observe that traffic on I-70 *is* heavy, I am hardly saying that traffic on I-70 *should* be heavy.

Mr. Barry's account of what NHV taught him about resource use is equally puzzling. We certain-

ly discuss cases that demonstrate how unrestrained individual use of commonly owned resources can lead to destruction of those resources (the infamous "commons problem"). Pointing out this problem in no way endorses it or implies this is what *should* happen. It actually suggests the opposite: this is a problem that requires solutions.

NHV is in the business of delivering some messages, but not the sort that Mr. Barry imagines. We teach that good writing is important at CSM and in professional life. We tell future engineers that they should be prepared to make intelligent ethical choices in complex situations and be able to rationally justify them. And we share our belief that engineers increasingly need the intellectual tools to work in a world where global social, economic, ethical, and environmental factors all impact applied science.

Beyond that, NHV does not deliver messages, proselytize, or preach. NHV lectures present issues that do not admit easy answers. We explore controversial cases in which there are strong ar-

guments on both sides, problems that elude simple solutions. When we ask students to confront both sides of an issue, our aim is to develop a critical skill for participating in a democratic society—that of understanding the complex justifications and values behind positions opposed to our own.

As NHV presents controversial cases, we ask students to examine the strengths and weaknesses of competing arguments and then to create their own arguments—logically and persuasively, in speech and in writing—within the context of rational debate. For some assignments, that may mean arguing for a position that mediates between two sides; for others, it may mean criticizing an opposing argument after first understanding it fully.

Perhaps it is just the complexity of the issues raised in NHV that bothers Mr. Barry. For a firmly settled worldview, debate itself can be unsettling. And if these debates disturb fixed understandings, whether environmentalist or anti-environmentalist, that may be a sign we in NHV are doing exactly the job we should be doing.



Drawing the line

Tim Weilert
Content Manager

Trends. They run throughout everything. From every branch of science to art and culture, trends show what lies beneath the surface of our observations. One trend I have observed at Mines is that the incredibly intelligent are not always the best at prioritizing.

Whether you are a freshman or an upperclassman, the issue of priorities should always be foremost in your daily life. Personal priorities, I contend, are a force more powerful than any emotion, academic endeavor, religious tradition, or relationship. It is our priori-

ties that shape our commitments to the above areas (that list is not all-inclusive, I simply don't have the space to spell everything out).

When you combine intelligence, a drive to succeed, and a lack of being able to manage priorities, the result is not pretty. Feelings of being "burnt-out," tired, and overwhelmed are just a few of the negative repercussions that come with such a lifestyle.

Therefore, I propose a new way to live. Consider commitments and their long-term implications first, before getting in over your head. Be clear about your intentions with any person or organization, so that everyone knows each party's pri-

orities. Finally, take the time to rest so that you can make decisions wisely.

Rest, I have found, is a key ingredient to living a successful life. Taking time to disengage from the daily and weekly rigors of life leads to less sickness (both physical and emotional), and a greater sense of satisfaction.

Examine your priorities. Are you losing sleep because you're stretched too thin? Is the work you do for one project interrupted by that of another? Do you want more free time? If you answered "yes" to any of the above questions then seriously consider resting up and getting your priorities in order.

NHV teaches students how to argue their opinions

Charlotte Adams
Staff Writer

I opened the paper last week to see an opinion article bashing our Nature and Human Values class. I was outraged and utterly confused. NHV, to me, is not teaching us opinions, but how to have opinions and how to successfully debate those ideas. Sure, we are shown cases where the superiority ladder has defeated the morality of the engineers, but if we are supposed to learn and grow as human beings and as engineers, we need to learn from those situations which went horribly wrong.

When asked about the main goals of the course, Dr. Dan Miller, a lecturer in Liberal Arts and

International Studies, and Coordinator of Nature and Human Values, stated that the first goal was “to help students prepare for the writing at CSM and in their future careers.” The course starts, after all, by teaching us about logical fallacies and how to make good arguments. The second goal, Miller said, was to “expose students to debates and arguments related to engineering ethics and the impact of engineers on society and nature.”

This is where I get confused reading the article in last week’s paper. The writer suggests that we are taught, “Money is morality.” Granted, the case studies we look at certainly show that their outcomes are usually revolving around cost benefit analysis; but

this is not the view put across by the instructors. Instead, they ask us to explain our opinions and our ideas of what morality is and what ethics we have. When asked if there is any real attempt to try to force students to go against their ethics and believe something else, Miller responded, “I don’t think you can give people opinions, and I certainly don’t want to.”

I am not the only person at Mines who sees NHV as a good thing. Lexi Salazar, a freshman, thinks NHV is beneficial because “it was a relief to have a course that required thinking, and not just regurgitation and plugging-and-chugging.” Salazar also thinks that it is a good idea to have debates; “It was my favorite

part of the course,” she said. Another freshman, who requested to stay anonymous, said that his favorite part of the course was group discussion because “it’s interesting to know how your peers think, and you can come to better conclusions when you can have your peers’ rebuttal.”

Another thing about being able to argue is to have the ability to be objective and non-biased. While difficult, it is essential to the goals of NHV because one-sided arguments seldom convince. If you do not know or understand the argument of your opponent, your arguments will not demonstrate any logical reasoning. We are not asked to throw away any opinions that we may already have, but instead we are asked

to look at the arguments openly so that we may come to a realization that it is possible for our arguments to be wrong.

With this, I draw the conclusion that just because you get a bad grade on your final essay because your instructor thought that your paper was “biased,” you don’t need to bash the entire course. Perhaps, instead, you should go back, read your essay and try to approach it from an alternative point of view. I firmly believe that the mission statement given by Mines (Earth - Energy - Environment) is well demonstrated in NHV. I rightly agree with Dr. Miller, who said, “NHV helps students arrive at their own, well-founded opinion in the context of reasonable debate.”



CSM Career Day to feature alternative career options

Erik Lord
Job Seeker for 10 Years Now

With nearly 10 percent of the nation’s population jobless, the United States is in the midst of an economic struggle. It seems even the reputable graduates of Mines are at risk for unemployment. In response to the recent shortage of job opportunities in the scientific and engineering fields, CSM’s spring 2010 Career Day will feature first-time employers hoping to launch Mines graduates into unconventional careers.

Representatives from the corporations of Amway Global, Hertz Rent-a-Car, and FedEx Kinko’s, among others, will be answering questions and accepting resumes from qualified students. Banana Republic has confirmed on-campus interviews, to be held in Hill Hall. “It’s a sign of things to come,” explained Career Center Advisor Jean Rayberger. “There simply aren’t as many technical jobs available to graduating students, so they’re going to have to be more open-minded about potential career paths.”

The Career Center, proud of CSM’s high job placement rate, invited these neo-traditional employers to attend in an effort to retain the school’s reputation. The suffering economy has strongly affected the employment of recent graduates. According to the Career Center’s 2009 Annual Report, the number of companies applying for Career Day recruiting has declined steadily since the fall semester of 2008, which was the largest Career Day on record.

That Career Day there were 219 employers present, with more than 100 on a wait list. The following spring, there were only 181 employers present with no wait list. The report also outlines the

Center’s strategy for combating the difficult economic situation by “[continuing] to initiate new contracts and educate employers of the unique assets of Mine’s students, specifically targeting local and global employers in a wide variety of fields.”

Peyton Clark, the Director of the Career Center & Employer

“In the past, we have recommended stating your desired occupation very clearly on your resume. This year, we encourage students to be much less specific when describing their desired position... It will give them a greater chance of getting selected for interviews.”

Relations, was unavailable for an interview, but provided this written response to inquiries regarding the unconventional employers invited to this semester’s Career Day:

“We at the Colorado School of Mines Career Center are committed to our mission to provide as many opportunities to our graduating students as possible. While the majority of our graduates are educated in engineering and scientific disciplines, the leaders of tomorrow will need to be well-versed in all aspects of commercial and government industry... including sales, marketing, meat grilling, and business.”

George Karnaze, a recruiter for FedEx Kinko’s, echoed the sentiments from the Career Center. “We are honored to have the chance to recruit graduates from the School of Mines. Many of the services we provide [to customers] are of a technical nature, such as printing and binding large documents,

so we welcome more team members with technical experience and small hands.”

When asked if graduates should feel disappointed to start their careers outside of their educational discipline, Karnaze quickly asserted “Absolutely not! Should someone feel ashamed of receiving a paycheck every two weeks?”

Certainly, success may be defined in far different terms for future CSM graduates than it has been in the past. Just as recently as 2009, the average salary for graduating students with Bachelor’s degrees was \$64,042. Currently, employees of FedEx Kinko’s in Denver earn an average of just \$14.75 per hour. When asked if FedEx Kinko’s was planning to offer salaries in this range, Karnaze replied “We will make every effort to pay new hires as much as possible.”

Students and alumni are invited to the Spring Career Day, which will begin at 9:30 a.m. on Tuesday, February 9th in Lockridge Arena at the Student Recreation Center. All attendees are encouraged to dress professionally and bring several copies of their resume.

Potential candidates are also cautioned to be much more flexible in their aspirations. “In the past, we have recommended stating your desired occupation very clearly on your resume. This year, we encourage students to be much less specific when describing their desired position,” Clark added. “It will give them a greater chance of getting selected for interviews.”

If graduates play their cards right, they could be getting discounts on printing those resumes in the future. Employees of FedEx Kinko’s currently receive 25 percent off all products and services.

Faculty bios to include preferred titles

Janeen Neri
Staff Writer

Mines plans to eliminate one of life’s most vexing irritations: speaking to or emailing a teacher without knowing how to address them. “In a classroom setting,” said Student Irritation Manager, Tanya Gessing, “this problem is usually avoided. Either on the syllabus or in class, your professor says ‘you can call me Dr. B’ or ‘you can call me Mr. Tabbs’ or even ‘Mr.

After surveying the student body, school officials found that the most common workaround was to start emails and conversations with an awkward “hi” or “hello,” or even by skipping greetings altogether.

After surveying the student body, school officials found that the most common workaround was to start emails and conversations with an awkward “hi” or “hello,” or even by skipping greetings altogether. “This puts neither party at ease,” said Gessing. The surveyed students agreed. “Most of the time I just assume they’re a doctor,” said one student, a math major, “for example, Dr. Ridgmann.” Another student noted that “this was so much easier when nobody expected

to be addressed by their first name. Also, we used slide rules back then, which are way cool!”

In fact, Gessing explained, “even when told the preferred mode of address verbally, most students eventually fall back on some ‘safe’ combination of the faculty’s last name or Mr., then the last name. Unfortunately, this strategy becomes more complicated when the individual is a woman.” Awkward moments like these finally

convinced the Mines staff to insert a “preferred form of address” field into the teacher bios on inside.mines.edu. “Our dream,” said Gessing, “is to at least have this reference handy when students are writing emails. This way, when they are contacting a professor to, for instance, ask about a class offering next semester, when they look up his email address, the name is right there too. And they can make a good first impression.” Gessing is also encouraging all professors to make their preferred title explicit on their syllabi. “It’s just another way,” she explained, “we can make life a little bit smoother for everyone.”



CSM
Club And
IM Sports

SOCCER
all sports trophy

Deadline: Thurs 2/18 @5pm

Captain's Meeting: Fri 2/19
@3pm McNeil Room

BILLIARDS

Deadline:
Thurs 2/11
@5pm

<http://recsports.mines.edu>

BOOK
&
Brew

**at Arthur Lakes
Library**



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- Do you work on Campus on Saturdays? You can now get your AFPP (afternoon face plant prevention) at the Book & Brew

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